

IN THE CLAIMS

Claim 1 (Previously Presented): A moving picture mailing system comprising:
a video signal capturing device for capturing digital video signals from video signal information of moving pictures;
an audio signal capturing device for capturing digital audio signals from audio signal information of moving pictures; and
a moving picture recorder for respectively receiving the video and audio signals from the video and audio signal capturing devices, compressing the video and audio signals using MPEG-4 video and audio compression techniques, multiplexing the compressed signals and transmitting combined bit streams to a moving picture mailing server;
wherein when mail is transmitted to the moving picture mailing server according to user request, the moving picture recorder transmits the combined bit streams to the moving picture mailing server in realtime together with the mail.

Claim 2 (Original): The system of claim 1, wherein the moving picture recorder comprises:

an MPEG-4 video encoder for compressing the video signals captured by the video signal capturing device;

an MPEG-4 audio encoder for compressing the audio signals captured by the audio signal capturing device; and

an MPEG-4 multiplexer for multiplexing the compressed video and audio signals respectively output by the MPEG-4 video and audio encoders and outputting the combined bit streams.

Claim 3 (Original): The system of claim 2, wherein the moving picture recorder further comprises a memory for temporarily storing the bit streams output by the MPEG-4 multiplexer.

Claim 4 (Original): The system 2, wherein the moving picture recorder further comprises a video format converter for converting the video signals captured by the video signal capturing device into signals of a reference video signal format.

Claim 5 (Original): The system of claim 4 wherein the reference video signal format is defined as YUV 4:2:0.

Claim 6 (Original): The system of claim 2, wherein the moving picture recorder further comprises an audio format converter for converting the audio signals captured by the audio signal capturing device into signals of a reference audio signal format.

Claim 7 (Original): The system of claim 2, wherein the MPEG-4 video encoder is a simple profile encoder of the MPEG-4 video part.

Claim 8 (Original): The system of claim 2, wherein the MPEG-4 audio encoder, is a code excited linear prediction (CELP) encoder of the MPEG-4 audio part.

Claim 9 (Original): The system of claim 2, wherein the MPEG-4 multiplexer varies frame rates for compressing signals according to hardware performance.

Claim 10 (Original): The system of claim 9, wherein time information that captures an input image is inserted to the bit streams output by the MPEG-4 multiplexer for each frame.

Claim 11 (Original): The system of claim 2, wherein the MPEG-4 multiplexer combines various frames and digital video data.

Claim 12 (Original): The system of claim 11, wherein the MPEG-4 multiplexer combines the frames and digital video data input by setting a predetermined color of the frame data as a key value.

Claim 13 (Original): The system of claim 1, wherein the system further comprises:

- a moving picture player for receiving the bit streams from the moving picture mailing server, splitting the same into compressed video and audio signals, decompressing the compressed video and audio signals and outputting digital video and audio signals;

- a video signal output device for reproducing the digital video signals output by the moving picture player as analog video signals; and

- an audio signal output device for reproducing the digital audio signals output by the moving picture player as analog audio signals;

Claim 14 (Original): The system of claim 13, wherein the moving picture player further comprises:

- a memory for temporarily storing the bit streams transmitted by the moving picture mailing server;

- an MPEG-4 splitter for splitting the bit streams stored in the memory into audio data video data frame data and time information;

- an MPEG-4 video decoder for decoding the video data and the frame data split by the MPEG-4 splitter by using the MPEG-4 technique, and outputting the decoded video data and the time information to the video signal output device; and

- an MPEG-4 audio decoder for decoding the audio data split by the MPEG-4 splitter by using the MPEG-4 technique, and outputting the decoded audio data to the audio signal output device.

Claim 15 (Original): The system of claim 14, wherein the moving picture recorder and the moving picture player are downloaded from the moving picture mailing server to be installed by a user.

Claim 16 (Original): The system of claim 14, wherein by an implementation of an automatic-download automatic execution program, the moving picture recorder and the moving picture player are automatically downloaded to a user system when the user system accesses the moving picture mailing server.

Claim 17 (Original): The system of claim 16, wherein the moving picture player further comprises a network data access filter for comparing information on the moving picture player of the moving picture mailing server with information on the moving picture player previously downloaded and set to the user system, and in the case the two kinds of information are different, enabling the moving picture player of the moving picture mailing server to be automatically downloaded to the user system and executed.

Claim 18 (Previously Presented): A moving picture mailing method comprising:

(a) capturing digital video and audio signals from information on video and audio signals of moving pictures;

(b) compressing the video and audio signals using MPEG-4 video and audio compression techniques; and

(c) multiplexing the compressed signals and transmitting combined bit streams to a moving picture mailing server;

wherein when the mail is transmitted to the moving picture mailing server according to user request, the combined bit streams are transmitted to the moving picture mailing server in realtime together with the mail.

Claim 19 (Original): The method of claim 18, the method further comprising:
determining whether the digital video and audio signals captured in (a) are respectively matched with predetermined data formats; and

converting the captured digital signals into signals of the predetermined data formats in the case the captured signals in (a) are not matched with the data formats

Claim 20 (Original): The method of claim 18, wherein the MPEG-4 video compression technique is a simple profile encoding technique of the MPEG-4 video part.

Claim 21 (Original): The method of claim 18, wherein the MPEG-4 audio compression technique is the code excited linear prediction (CELP) of the MPEG-4 audio part.

Claim 22 (Original): The method of claim 18, wherein frame rates for compressing signals according to hardware performance are varied to generate bit streams in (c).

Claim 23 (Original): The method of claim 22, wherein time information that captures an input image is inserted to the generated bit streams for each frame.

Claim 24 (Original): The method of claim 18, wherein the method further comprises:

- receiving the bit streams from the moving picture mailing server and splitting them into compressed video and audio signals;

- decompressing the compressed video and audio signals and outputting digital video and audio signals; and

- reproducing the output digital video and audio signals as respective analog video and audio signals.